PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000054925	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No. PCT/EP2004/010492	International filing date (day/mon 18.09.2004	th/year) Priority date (day/month/year) 26.09.2003				
International Patent Classification (IPC) or national classification and IPC . C09K15/20 C07B63/04 C07C7/00						
Applicant BASF Aktiengesellschaft						
This report is the international preling under Article 35 and transmitted to the second contract of the secon		hed by this International Preliminary Examining Authority				
2. This REPORT consists of a total of	7 sho	eets, including this cover sheet.				
3. This report is also accompanied by A	NNEXES, comprising:					
a. (sent to the applicant and	to the International Bureau) a total	of 5 sheets, as follows:				
sheets of the descrip	tion, claims and/or drawings which	n have been amended and are the basis for this report and/or ority (see Rule 70.16 and Section 607 of the Administrative				
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental					
	Bureau only) a total of (indicate typ	e and number of electronic carrier(s))				
		, containing a sequence listing and/or tables				
-	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
This report contains indications relati	ng to the following items:					
Box No. I Basis of the	report					
Box No. II Priority						
Box No. III Non-establi	shment of opinion with regard to no	ovelty, inventive step and industrial applicability				
Box No. IV Lack of uni	ty of invention					
DON 110: 1						
Box No. VI Certain doc	uments cited					
Box No. VII Certain defe	ects in the international application					
Box No. VIII Certain obs	ervations on the international applic	eation				
Date of submission of the demand	Date of con	apletion of this report				
Name and mailing address of the IPEA/EP	Authorized	officer				
Facsimile No.	Telephone	No.				

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International application No.

PCT/EP2004/010492

Box	No. I	Basis of the report		
1.		h regard to the language, this report is based on the internation cated under this item.	onal application in the language in	which it was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purport international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4 international preliminary examination (Rule 55.2 and	poses of: 4)	,
2.	rece	th regard to the elements of the international application, this iving Office in response to an invitation under Article 14 a report): the international application as originally filed/furnished the description:	s report is based on (replacement :	
		pages 1-34 pages*		as originally filed/furnished
		pages*		
	\boxtimes	the claims:		
		nos.		as originally filed/furnished
		nos.*	as amended (togethe	r with any statement) under Article 19
		nos.* _ 1-21	received by this Authority on	13.05.2005 with letter of 12.05.2005
		nos.*	received by this Authority on	
		the drawings:		as originally filed/furnished
		sheets*		
		sheets*	-	
		a sequence listing and/or any related table(s) – see Supplement		
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos.		
		the sequence listing (specify):		
4.		This report has been established as if (some of) the amenthey have been considered to go beyond the disclosure as f	dments annexed to this report and	listed below had not been made, since
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	perseded."	

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement	-	_		
	Novelty	(N)	Claims	1-21	YES
					NO
	Inventive	e step (IS)	Claims	1-21	YES
					_ NO
	Industria	l applicability (IA)	Claims	1-21	YES
			Claims		
2.	Citations an	d explanations (Rule 70).7)		
				ade to the following documents:	
		D1: GB-A-	-2 22	6 066 (RHONE POULENC CHIMIE)	
		20 Ju	ine 1	990 (1990-06-20)	
		D2: DE 19	9 20	796 A (ROEHM GMBH) 9 November 2000	
		(2000)-11-0	09)	
	1.1)	Documents	D1 aı	nd D2 are considered the prior art	
		closest to	the	subject matter of claims 1 and 19.	
		Document D)1 dis	scloses a method for stabilising	
		(see the a	bstra	act) polymerisable compounds with	
		respect to	pol	ymerisation when used in	
		compositio	ns wl	nich are stored and transported (see	
		page 1, li	ne 1	to page 2, line 6; page 5, lines 13	
		- 18 and p	age !	9, lines $1-8$), characterised by	
		the use of	at :	least one radical interceptor that	
		contains a	it lea	ast two glycine units (e.g.	
		nitrilotri	acet	ic acid, N-(2-	
		hydroxyeth	nyl)et	thylenediaminetriacetic acid; see	
		page 4, li	nes :	16 - 26) .	
	1.2)	D1 also di	sclos	ses stabiliser mixtures which	

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Box No. V

citations and explanations supporting such statement

contain a radical interceptor that contains at

least two glycine units, a further stabiliser and

a polymerisable compound (see the abstract,

claim 1, and page 4, lines 16 - 26).

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;

1.3) D1 also discloses the use of the mixtures for stabilising polymerisable compounds with respect to polymerisation during storage and/or transport (see page 1, line 1 to page 2 line 6; page 5, lines 13 - 18 and page 9, lines 1 - 8).

Document D1 does not disclose any compounds that contain at least two glycine units and at least one amide and/or ester unit.

The subject matter of claims 1 and 19 is therefore considered novel over D1.

- 2.1) Document D2 discloses a method for stabilising polymerisable compounds during the production thereof (see claim 1) and during the preparation thereof (see claim 8 and example 1), characterised by the use of a radical interceptor that contains at least two glycine units (e.g. nitrilotriacetic acid, N-(2-hydroxyethyl)ethylenediaminetriacetic acid; 3,6-dioxaoctamethylenedinitrilotetraacetic acid (see claim 6)).
- 2.2) D2 also discloses stabiliser mixtures which contain a radical interceptor that contains at least two glycine units, a further stabiliser and a polymerisable compound (see claims 1 and 6).

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2.3) D2 further implicitly discloses use of the mixtures for stabilising polymerisable compounds with respect to polymerisation during preparation (see claim 8 and example 1).

Document D2 does not disclose any compounds that contain at least two glycine units and at least one amide and/or ester unit.

The subject matter of claims 1 and 19 is therefore considered novel over D2.

3.1) The subject matter of claims 1 and 19 thus differs from that known from D1 and D2 in that the stabilising compounds also contain at least one amide and/or ester unit.

The current invention therefore addressed the problem of providing an alternative method for stabilising polymerisable compounds with respect to polymerisation during the preparation, storage and/or transport thereof (page 2, lines 12 - 14), by using alternative compounds that contain at least two glycine units and at least one amide and/or ester unit.

There is nothing in the prior art to suggest choosing such compounds from the compounds containing at least two glycine units.

The subject matter of claims 1 and 19 is therefore

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	considered inventive in relation to the prior art.
3.2)	Claims 2-18 are dependent on claim 1 and claims 20
	and 21 are dependent on claim 19 and therefore
	likewise meet the PCT requirements for novelty and
	inventive step.
1	

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Clarity

4) Claim 2 is unclear. According to claim 1, compounds of formula (I) should contain at least two glycine units. Since R7 and R8 may not be hydrogen and since n and k are not necessarily 1, the presence of two glycine units is guaranteed only when R1 and R2 are hydrogen.

However, according to claim 2, R1 and R2 may also be groups other than hydrogen.